

and with the proposed PM_{2.5} standard (along with an assumed sulfur level of

11 ppm in-use, 15 ppm maximum). By 2030, we estimate that PM_{2.5} emissions

from this source would be reduced by 86 percent in that year.

TABLE II.E-3.—ESTIMATED NATIONAL (50 STATE) REDUCTIONS IN PM_{2.5} EMISSIONS FROM NONROAD LAND-BASED, LOCOMOTIVE, COMMERCIAL MARINE, AND RECREATIONAL MARINE DIESEL ENGINES

Year	PM _{2.5} * without rule [short tons]	PM _{2.5} with 500 ppm fuel sulfur (340 in-use) and no other controls [short tons]	PM _{2.5} reductions with 500 ppm fuel sulfur (340 in-use) and no other controls [short tons]	PM _{2.5} with rule (15 ppm sulfur level, 11 in-use) [short tons]	PM _{2.5} reductions with rule (15 ppm sulfur level, 11 in- use) [short tons]
2020	186,000	163,000	100,000	23,000	86,000
2030	205,000	178,000	77,000	27,000	127,000

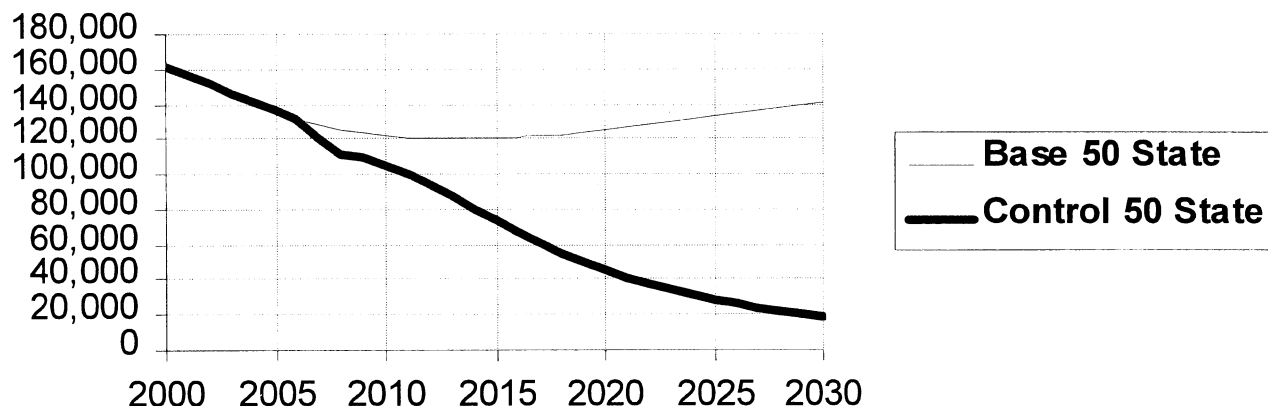


Figure II.E-1: Estimated Reductions in PM_{2.5} Emissions From Land-Based Nonroad Diesel Engines (tons/year)

Nonroad diesel engines used in locomotives, commercial marine vessels, and recreational marine vessels are not affected by the emission standards of this proposal. PM_{2.5} emissions from these engines would be reduced by the reductions in diesel fuel sulfur for these types of engines from an in-use average of between 2,300 and 2,400 ppm today to an in-use average of about 340 ppm (500 ppm maximum) in

2007. The estimated reductions in PM_{2.5} emissions from these engines based on the proposed change in diesel fuel sulfur are about 6,000 tons in 2020 and 7,000 tons in 2030.¹⁰⁹ For more information on proposed fuel sulfur reductions, please *see* chapter 7 of the draft RIA.

2. NO_x

Table II.E-4 shows the 50 state estimated tonnage of NO_x emissions for 2020 and 2030 without the proposed rule and the estimated tonnage of emissions eliminated with the proposed rule in place. These results are shown graphically in Figure II.E-2. By 2030, we estimate that NO_x emissions from these engines will be reduced by 67 percent in that year.

TABLE II.E-4.—ESTIMATED NATIONAL (50 STATE) REDUCTIONS IN NO_x EMISSIONS FROM NONROAD LAND-BASED DIESEL ENGINES

Calendar year	NO _x without rule [short tons]	NO _x with rule [short tons]	NO _x reductions with rule [short tons]
2020	1,147,000	640,000	507,000
2030	1,239,000	412,000	827,000

¹⁰⁹ These reductions are based on a 50 state emissions inventory estimate.